5/142/60/003/004/010/013 E032/E314

24.2700

Andreyev. S.N.

Graphs for Calculating the Power Distribution in AUTHOR: Cylindrical Bodies and High-frequency Fields TITLE:

Izvestiya vysshikh uchebnykh zavedeniy. Radiotekhnika, 1960, Vol. 3, No. 4, pp.508 - 512 PERIODICAL:

Experimental and theoretical data suggest that, in practice. it is not possible to achieve a uniform distribution of power right through a cylindrical body subjected to radiofrequency heating the specific power liberated in the material is given by:

 $p_o = \omega \epsilon_o \epsilon^{"\tilde{E}^2}$

is the angular frequency. e 0.886 pF/cm, and where

is the electric-field strength.

It is clear from Eq. (1) that the best way of increasing the

Card 1/5

CIA-RDP86-00513R000101520009-3" **APPROVED FOR RELEASE: 03/20/2001**

S/142/60/003/004/010/013 E032/E314

Graphs for Calculating the Power Distribution in Cylindrical Bodies and High-frequency Fields

power dissipated is to increase the magnitude of E . However, E can only be increased up to a certain critical walue $E_{\rm cr}$. Further increase in the intensity of the

electric field leads to electrical breakdown. The power dissipated can also be increased by increasing the frequency but this leads to a nonuniform distribution of the electric field and consequently to a nonuniform distribution of the field and consequently to a nonuniform distribution in a power dissipated. The electric-field distribution in a cylinder of radius r and with the electric field applied

as shown in Figure 1 is calculated assuming that the material is uniform and that its electrical parameters are constant. In reality, & and tan & depend on the temperature but the introduction of these dependences would complicate the analysis introduction of these dependences would complicate the analysis too much. The solutions of the electromagnetic field equations too much the case of the cylindrical specimen illustrated in for the case of the Bessel functions.

Card 2/5

S/142/60/003/004/010/013 E032/E314

Graphs for Calculating the Power Distribution in Cylindrical Bodies and High-frequency Fields

$$\dot{\tilde{E}} = \tilde{E}_{O}J_{O}(\xi) \qquad (2)$$

where

$$\xi = r\omega \sqrt{\frac{r^{2}}{\mu_{o}\epsilon_{o}\epsilon}} = \frac{r^{2}\pi f}{\sqrt{\frac{1}{\mu_{o}\epsilon_{o}}}} \sqrt{\frac{r^{2}}{\epsilon}} = \frac{2^{\frac{1}{1}}}{\frac{1}{\epsilon}} \sqrt{\frac{r^{2}}{\epsilon}} = \frac{r^{2}\pi f}{\frac{1}{\epsilon}} \sqrt{\frac{r^{2}}{\epsilon}} = \frac{r^{2}\pi f}{\frac{1}{\epsilon}$$

$$= \frac{2\pi r}{\lambda_o} \sqrt{\frac{\epsilon}{\epsilon}} = \frac{2\pi r}{\lambda} e^{-j6/2}$$

Card 3/5

S/142/60/003/004/010/013 E032/E314

Graphs for Calculating the Power Distribution in Cylindrical Bodies and High-frequency Fields

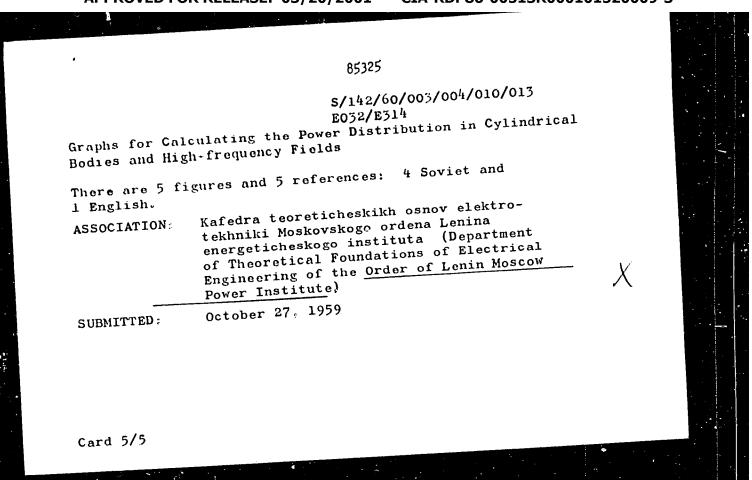
 $\lambda = \lambda_c / \sqrt{\epsilon}$ is the wavelength in the heated material.

is the electric-field strength on the axis of the cylinder

 $\varepsilon = \varepsilon e^{-j\delta} = \varepsilon^{\dagger} + j\varepsilon^{\parallel}$ is the complex dielectric constant of the material.

When the parameters ϵ^2 , tan δ and the generator frequency are known, the electric-field distribution in the material can be obtained with the aid of the chart shown in Fig. 2, which was calculated by the author from the data given in Watson's Theory of Bessel Functions. This chart is more comprehensive than the chart given in Jahnke and Emde ("Tables of Functions"). Figs. 3-5 give further graphs which can be used in conjunction with the chart in Fig. 2.

Card 4/5



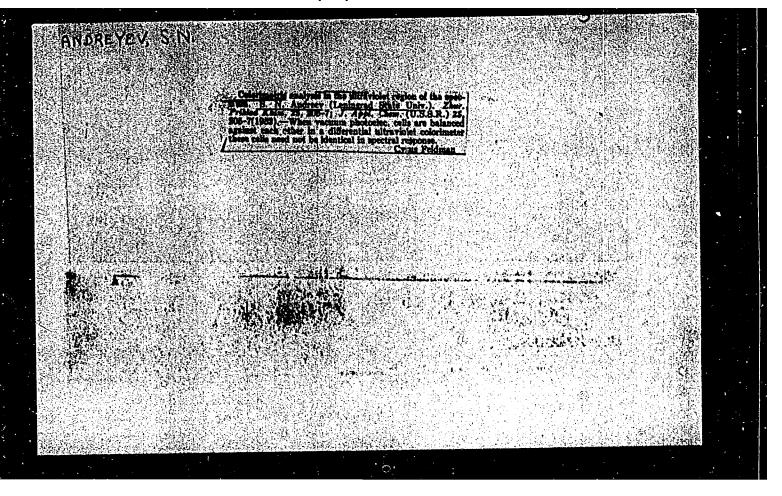
Alberta, S. II.

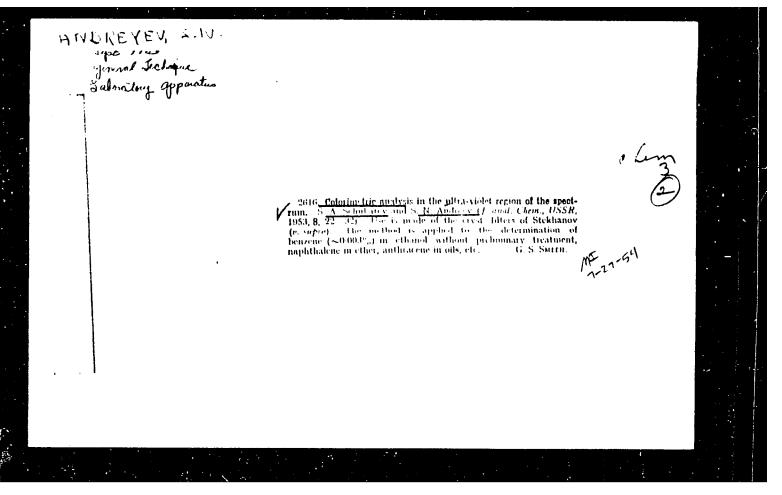
invertionations in the liels of Medatarates by its Main ammens thill in Medianen or rivelives. XI. The Lectuarism of Comparated Internation on Medal agration Research, M.A.Bonin, V.A.Cherhasov, S.M.Aninepev, Inc. to. Acci A. To Mararchiy, action, M.A.Bonin, M.A.Cherhasov, E.M.Aninepev, Inc. to. Acci A. To Mararchiy, action or a State Midwersity. Zour Sh Main, Tel 21, 10 17, pp 1 0-2 13, set M

Ultraviolet monorpaion apectrore, a conseil nel lune action of coincline on 1,1dibromosyclomedane, quiroline an eyelomesticiene-1, i am messione chame, and
daimoline har an eyelomesmitane-1, 3 and hemographitane pielles reducts conta resp
10-203, 65-903, and 301 pensone. First state of conversion of polymologen
derive of cyclometene into aromatic compds on mesting with outselfne in 5 mestion of
4-mensered mine with conjugated in 100 londs.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101520009-3



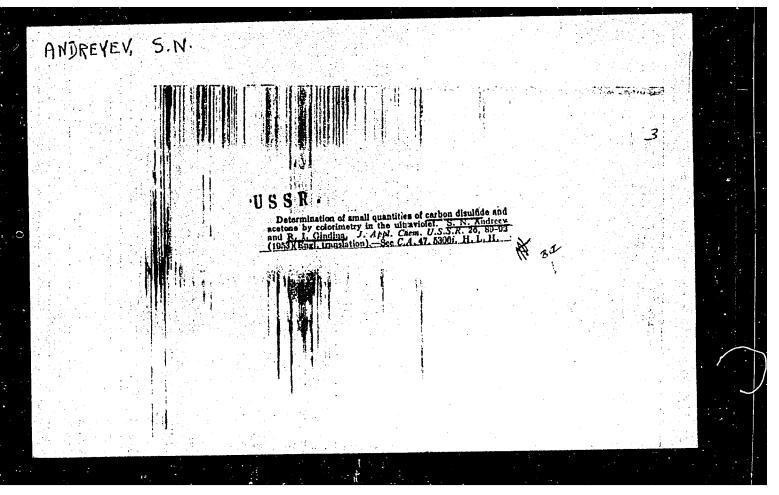


AMBREYEV, S. M.

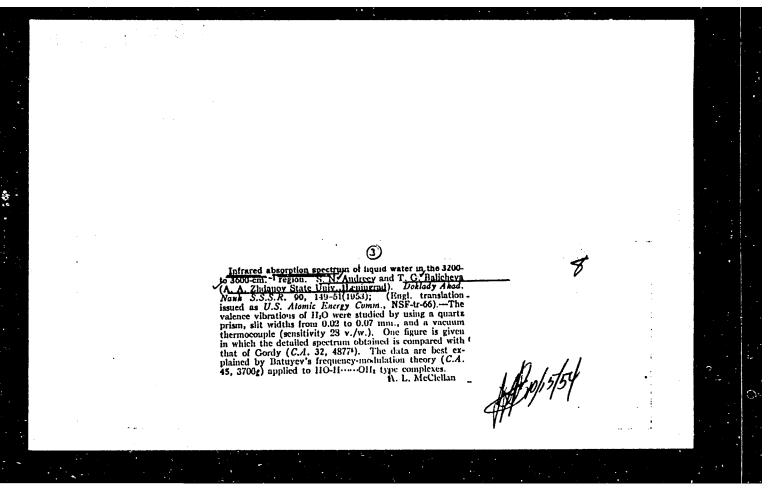
Light Filters for Colorinatric Analysis in the Filtrary let continued the Colorina, 5.5.Andreyev and R. J. Cin Mina, Their Prin H. In, Fol 16, No 1, on 18-88, Jan 33

Might filters were prepared on a rised crystal base for alternishet. There filters are made in the visible region to 6,600 A inclusive, having transmission max at 2,870, 2,600 and 2,700 A. A liquid light filter was propared in the earn 1.1 rates of Cl₂ + 0.16 rates litter of the + 000, which filter is opposed in the region 6,600 to 3,000 A and transmittent between 3,000 and 0,000 A. Light filters were propal on a basis of breate glass with accintures of K.Cros and Mr20. They had transmission max at 3,100, 3,100, 3,200, and 3,300 A. Allight filter was graph on a film base. The sad a transmission max at 3,130 A.

237737



| | (7) | |
|--|--|--|
| B. T. R. Vol. 3 No. 4 Apr. 1954 Physics | 5625 Infrared Absorption Spectrum of Liquid Water in the 3200 to 3600 Cm ⁻¹ Region. S. N. Andreyev and T. G. Halichext, National Science Foundation Translation, no. 68, Sept. 4953, 3 p. (Original in Doklady Akademii Nauk SSSR, v. 90, 1953, p. 149-151.) Presents a detailed study of absorption band. Graph, table. 13 ref. | |
| • | 13_ref. | |
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| | | |



ANDREYEV, S.N.; KHAIDIN, V.G.; TEHENIN, A.N. akademik.

Development of trans-influence in absorption spectra of Pt (IV) complex compounds of the chloramine series. Dokl.AN SSSR 90 no.5:787-790 Je 53.

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova (for Andreyev, Khaldin). 2. Akademiya nauk SSSR (for Terenin). (Absorption spectra) (Platinum organic compounds)

(MLRA 6:5)

ANDREYEY, S.N.

USSR/Chemistry - Spectral analysis

Card 1/1

Pub. 145 - 2/14

Authors

: Shchukarev, S. A.; Andreyev, S. N.; and Sapozhnikova, O. V.

THE PROPERTY OF THE PARTY OF TH

Title

Determination of small ketone amounts by colorimetering in the

ultraviolet zone of the spectrum

Periodical

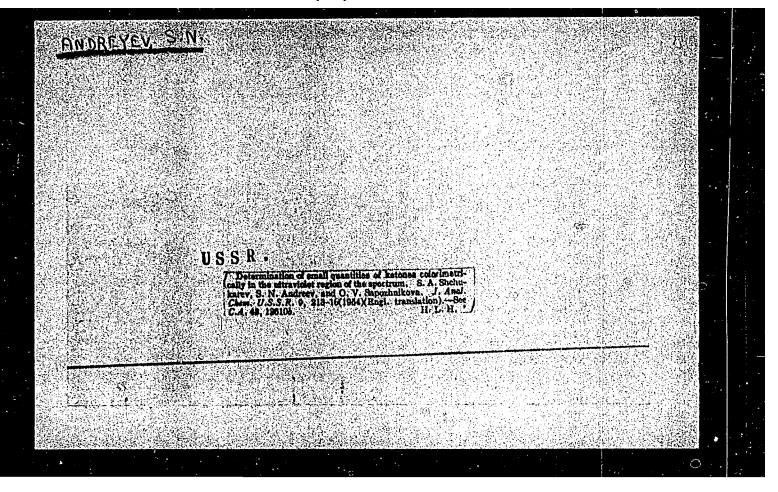
: Zhur. anal. khim. 9/4, 193-195, Jul-Aug 1954

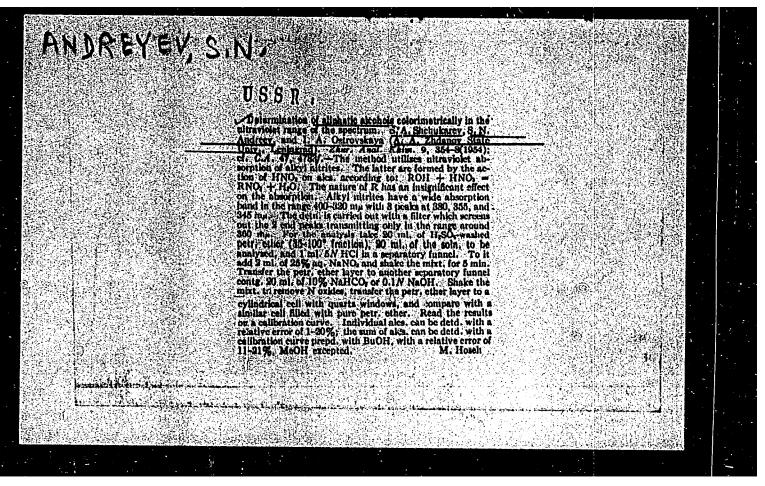
Abstract

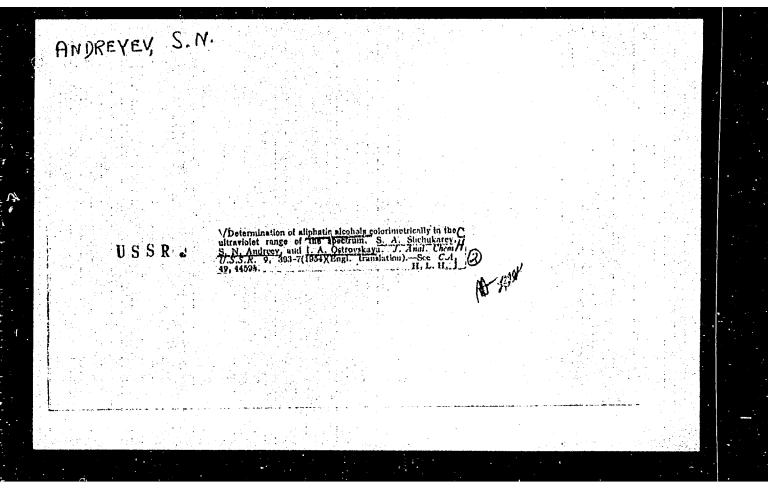
The applicability of the colorimetering method for quantitative analysis of various aliphatic ketones was investigated. The objects used in this investigation were the following aqueous ketone solutions: acetone, methylethylketone, pentanone-2, hexanone-2, heptanone-2 and octanone-2. The relative accuracy of the analysis attained by this method was 0 - 15%. It was established that the colorimetering of acetone solutions in the presence of formaldehyde is possible also at a acetone-formaldehyde concentration ration of 1:100. Nine references: 2-English; 2-German and 5-USSR (1901-1953). Tables; graphs.

Institution: The A. A. Zhdanov State University, Leningrad

Submitted : December 9, 1953







AUTHORS:

54-10-2-11/16 Stroganov, Ye.V., Kozhina, I.I., Andreyev, S.M.

TITLE:

The Structure of the Ciystal CoCl₂ · 6H₂O (Struktura kristalla

 $C_0C1_2 \cdot 6H_2O)$

PERIODICAL:

Vestnik Leningradskogo Universiteta, Seriya fiziki i , 1958, Vol. 10 Nr 2, pp. 109-116 (USSR)

khimii

ABSTRACT:

Among the cobalt chlorides with different crystallization water content the compound CoCl₂ . 6H₂O has not yet been investigated with respect to its crystalline structure. The authors undertook to do this, hoping that knowledge of a new structure would contribute towards generalizing these crystal hydrates. As a result of radiostructural investigation the structure of the crystal CoCl₂. 6H₂O was determined. The crystal is composed of ions Co²⁺, Cl and H20 molecules. The water molecules occur in the crystal in two states: 2/3 of all water molecules are in the immediate vicinity of the ions Co²⁺. The distances between the centers of the water particles and the center of the ion Co²⁺ amount to 2.12 kX. 1/3 of all water molecules is far away from the particles Co2+ (3.20 kX). The water molecules which are nearest to the cobalt

Card 1/2

The Structure of the Crystal CoCl₂ . 6H₂O

54-10-2-11/16

form groups of 4 round each of the Co²⁺ ion and form a rectangle in the center of which the Co²⁺ is located. The water molecules located at a greater distance are grouped along a straight line from both sides of this rectangle. This line passes through the center of the rectangle and with its normal forms an angle of 40°. In the series of chlorine cobalt crystals with different content of orystallization water the anion particles in the octahedral vicinity of Co²⁺ ions are replaced by water molecules with an increasing water content in the crystal. Chlorine cobalt hexahydrate can be considered to be a complex compound. It consists of an octahedral complex [Co²⁺ . 4H₂O . 2Cl⁻] and 2 water molecules which border immediately upon the Cl⁻ anions. It is rational to ascribe the chemical formula $[Co(H_2O)_4Cl_2]$. $2H_2O$ to this substance in solid condition. There are 3 figures, 5 tables, and 3 references, allof which are Soviet.

SUBMITTED:

November 19, 1957

AVAILABLE:

Library of Congress

Card 2/2

1. Crystals-Structure 2. Crystal hydrates-Structural analysis

5 (4) AUTHORS: Andreyev, S. N., Stroganov, Ye. V., SOV/79-29-5-75/75 Khaldin, V. G. A Subject of Discussion (V poryadke diskussii). On the TITLE: Applicability of the Equation by A. F. . Kapustinskiy for the Computation of the Energy of Crystal Lattices of Complex Salts (O primenimosti uravneniya A. F. Kapustinskogo dlya rascheta energii kristallicheskikh reshetok komleksnykh soley) Zhurnal obshchey khimii, 1959, Vol 29, Nr 5, pp 1753 - 1757 PERIODICAL: (USSR) ABSTRACT: This is a discussion dealing with the suggestion made by K. B. Yatsimirskiy that the radius of the complex ion be introduced into Kapustinskiy's equation for the computation of lattice energies of tetrahedric and octahedric complex salts. For this purpose the ion radius was determined from the X-ray structural data for 18 such complex ions and compared with the calculations from the Kapustinskiy formula (Table). For salts with ions Cro 4, So 4, Clo 4 and MX6 2 (of the structure type K2 (PTC1) a good agreement is obtained. Thus, the equation by A. F. Kapustinskiy may be Card 1/2

A Subject of Discussion. On the Applicability SOV/79-29-5-75/75 of the Equation by A. F. Kapustinskiy for the Computation of the Energy of Crystal Lattices of Complex Salts

well used for the determination of lattice energies of tetrahedric and octahedric complex salts. The authors thank K. P. Mishchenko for valuable critical remarks. There are 1 table and 11 references, 6 of which are Soviet.

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet

(Leningrad State University)

SUBMITTED:

May 30, 1958

Card 2/2

USCOMM-DC_61,255

5(2) ÁÙTHORS: Andreyev, S. N., Khaldin, V. G.,

sov/79-29-6-6/72

Stroganov, Ye. V.

TITLE:

Hydration Heats of the Ions $Me(H_2O)_6^{+2}$ (O teplotakh gidrat-

atsii ionov $Me(H_20)_6^{+2}$)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 6, pp 1798-1801

(USSR)

ABSTRACT:

The investigation of the hydrate sheaths of ions in solutions was hitherto one of the most difficult problems, since physico-chemical methods are missing, which permit the investigation of the state of the water molecules isolated from the remaining mass of the solvent, which envelop the ions. The manifoldness of the chemical properties of the ions is another difficulty to be met with in this investigation. For the solution of this problem a many-sided investigation of the aquo-ions which are constituents of the crystal lattice of the crystal hydrates of different salts, and the investigation of the properties of the water molecules which envelop

the ions in the crystal hydrates could be of decisive

importance. On the basis of the papers by K. B. Yatsimirskiy (Refs 1-5) the authors arrived at the conclusion that the

Card 1/4

Hydration Heats of the Ions $Me(H_2^0)_6^{+2}$

sov/79-29-6-6/72

investigation of the hydration heats of the aquo-ions $Me(H_2O)_6^{+2}$ initiated by this scientist had to be continued. For this purpose one should start with the crystal hydrates, the crystal lattices of which are already thoroughly investigated with respect to their structure. Also in the present case the data of a X-ray analysis confirmed the presence of the ions $Me(H_20)_6^{+2}$ in the molecule of the crystal hydrates. The addition energy of the water molecules onto the ions Me⁺² as well as the hydration heat of the aquo-ions $Me(H_20)_6^{+2}$ can be determined if the primary integral heats of solution and energy of the crystal lattices of the salts are known. On the basis of the primary integral solution heats of the crystal hydrates of the metal perchlorides the standard formation heats of the following compounds were determined: $\text{Zn}(\text{ClO}_4)_2$. GH_2O , $\text{Cd}(\text{ClO}_4)_2$. GH_2O , $\text{Mn}(\text{ClO}_4)_2$. GH_2O , $Fe(Clo_4)_2 \cdot 6H_20$, $Co(Clo_4)_2 \cdot 6H_20$, $Ni(Clo_4)_2 \cdot 6H_20$. According to the equation of A. F. Kapustinskiy (Ref 10) the energy

Card 2/4

Hydration Heats of the Ions $Mo(H_20)_6^{+2}$

sov/79-29-6-6/72

values of the crystal lattices of the crystal hydrates of the perchlorates Mg, Zn, Cd, Mn, Fe, Co, and Ni were determined, the formation heats of the aquo-ions $Mg(H_2O)_6^{+2}$, $Zn(H_2O)_6^{+2}$, $Cd(H_2O)_6^{+2}$, $Mn(H_2O)_6^{+2}$, $Fe(H_2O)_6^{+2}$, $Co(H_2O)_6^{+2}$, $Co(H_$ the ions Me⁺² in the gaseous phase and their hydration heats of the ions $Me(H_2O)_6^{+2}$. These results are in agreement with those obtained by K. B. Yatsimirskiy. It was shown that the hydration heats of the aquo-ions form about the half of the hydration heat of the ions Me^{+2} . The water molecules in the aquo-ion $Me(H_20)_6^{+2}$ are considerably polarized. These aquoions are so-called "Aqua Acids" (Refs 17-19). The authors express their gratitude to A. F. Kapustinskiy and K. P. Mishchenko for valuable advice. There are 3 tables and 19 references, 16 of which are Soviet.

Card 3/4

Hydration Heats of the Ions $Me(H_2O)_6^{+2}$

SOV/79-29-6-6/72

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED:

May 30, 1958

Card 4/4

5 (2)

AUTHORS:

Shchukarev, S. A., Andreyev, S. N.,

SOV/79-29-8-2/81

Borisova, Z. U.

TITLE:

On the Enthalpy of Dissolution of the Hexahydrate of Zinc

Perchlorate

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2468 - 2470

(USSR)

ABSTRACT:

Exact data on the heat of the solution process of various crystallo-hydrates are material for the elaboration of the thermodynamic theory of the solubility of salts, as well as for the concept of the chemical nature of the crystal hydrates themselves. Nothing has hitherto been published on the heats of solution of the hexahydrate $\operatorname{Zn}(\operatorname{ClO}_4)_2.6\operatorname{H}_2\mathrm{O}$, which is therefore

the task of the present paper. Preparation and analysis of the above hydrate are described in detail. In the dissolution of this freshly precipitated hydrate, containing a small excess of mother liquor, comparatively low heats were obtained, as may be seen from figure 1. As was expected, this excess of mother liquor decreases numerically the endothermic effect of the solution of the salts, since the dilution of the saturated solution

Card 1/2

On the Enthalpy of Dissolution of the Hexahydrate of SOV/79-29-8-2/81 Zinc Perchlorate

is an exothermic process. The hydrate desiccated within 24 hours contained 6 molecules of water and yielded a maximum heat of solution, its value approaching closely that obtained by the methods described above. This heat decreases numerically with further desiccation. The data given show that a minimum of dehydration, within the limit of error, leads to a considerable decrease of the heat of solution. The experimental data lead to the conclusion that the preparation desiccated within 24 hours is most useful for the determination of the heat of solution. The values obtained for this heat at various dilutions are shown in table 2 and in figure 2 (dilutions 1: 1000 to 1: 7). There are 2 figures, 2 tables, and 4 Soviet references.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State

University)

SUBMITTED: June 10, 1958

Card 2/2

ANDREYEV, S.N.; SHCHUKAREV, S.A.; RALICHEVA, T.G.

Vibrational spectra of the water of crystallization in the single crystals MiSO₁₁ •7H₂O, NiSO₄ •6H₂O and CaSo₁₁ •2H₂O in the region of the fundamental frequency for the valence vibrations of O-H. Zhur. struk. khim. i no.2:183-188 J.-Ag '60.

(EIR. 13:9)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova (Nickel sulfate--Spectra) (Calcium sulfate--Spectra)

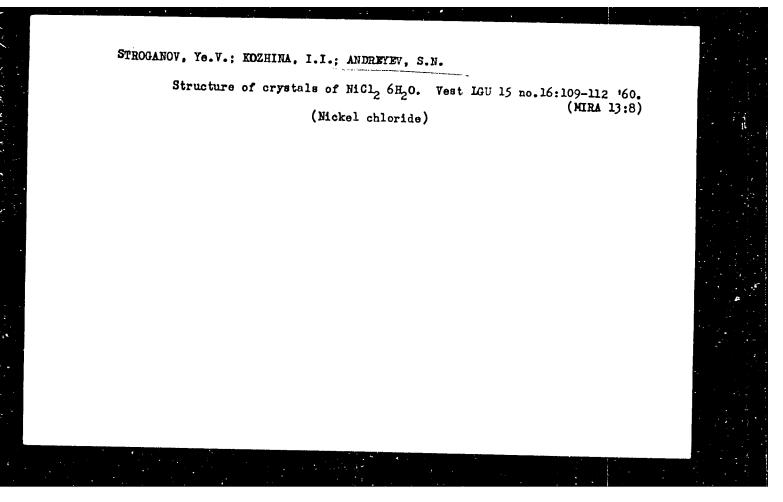
(Crystallization, Water of--Spectra)

STROGAHOV, Ye.V.; KOZHINA, I.I.; ANDREYEV, S.N.; KOLYADIN, A.E.

Crystal structure of crystal hydrate salts of transition metals.

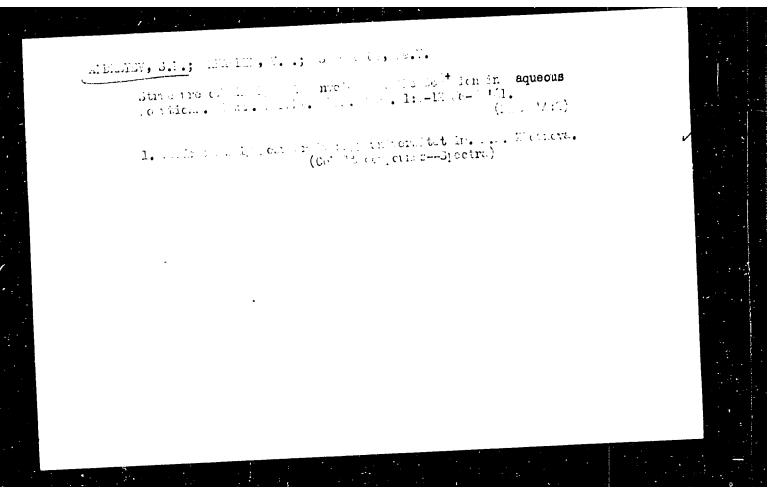
Part 2: Structure of the crystal NiCl₂.4H₂O. Vest. LOU 15 no.4:
130-137 '60. (NIRA 13:2)

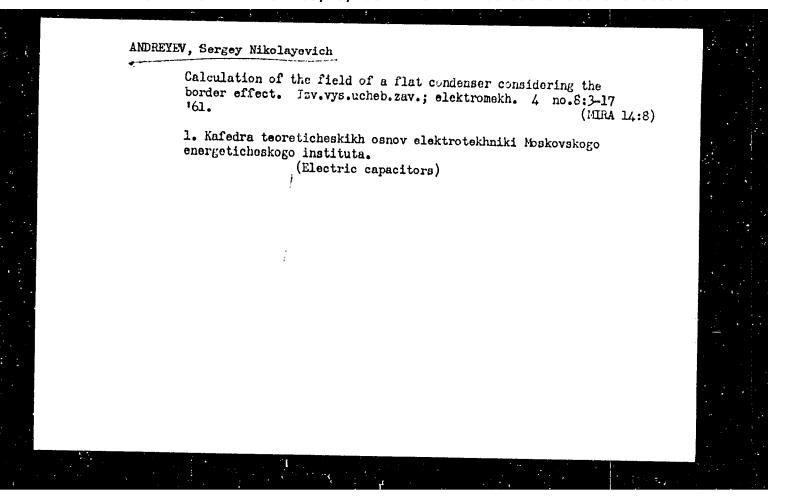
(Nickel chloride crystals)



Complex formation in the system CoCl₂ - HCL - H₂O. Dok1.AN
SSSR 134 no.2:345-348 S '6O. (MIRA 13:9)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.
Predstavleno akad. I.I.Chernyayevym.
(Cobalt compounds)





STROGAMOV, Ye.V.; ANDREYEV, S.N.; KOVHINA, I.I.; SOLOV'YEV, V.Ye.

Crystal structure of crystal hydrates of transition metal salts
Part 3: CoBr₂. 6H₂O crystal structure. Vest LGU 16 no.16:114119 '61. (Cobalt halides)
(Crystal lattices)

SHCHUKAREV, S.A.; ANDREYEV, S.N.; BALICHEVA, T.G.; NECHAYEVA, L.N.

Infrared absorption spectra of aqueous solutions of some perchlorates in the region of the fundamental frequency of O-H valence oscillations. Vest LGU 16 no.16:120-124 '61.

(MIRA 14:8)

(Perchlorates—Spectra)

SHCHUKAREV, S.A.; ANDREYEV, S.N.; BALICHEVA, T.G.

Infrared spectra of perchloric acid and its solutions in the region of 3700 - 2300 cml. Vest. IGU 17 no.4:128-134 '62. (MIRA 15:3)

(Perchloric acid-spectra)

ANDREYEV, S. N.: KHALDIN, V. G.

Composition and structure of complexes in aqueous solutions of bivalent cobalt halides. Zhur. ob. khim. 32 no.12:3845-3852 D '62. (MIRA 16:1)

1. Leningradskiy gosudarstvennyy universitet.

(Cobalt halides) (Complex compounds)

ANDREYEV, S.N.; KHALDIN, V.C.

Complex formation in the system CoRr₂ - HBr - H₂C.
Dokl. All SSSR 143 no.2:335-337 Mr 162. (RIRA 15:3)

1. Leningradskiv gosudarstvennyy universitet im. A.A.Zhdanova.
Predstavleno akademikom I.J.Chernyayavym.

(Cobalt compounds)

(Bromides)

SHCHUKAREV, S.A.; ANDREYEV, S.N.; BURKOV, K.A.

Complex formation in the system NiCl₂ - HCl - H₂O. Dokl.AN SSSR
144 no.2:371-373 My '62. (MIRA 15:5)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
Predstavleno akademikom I.I.(hernyayevym.
(Nickel chlorides) (Hydrochloric acid) (Complex compounds)

3 3131 \$/020/62/144/003/029/030 B124/B101

// 21/5 AUTHORS:

Shchukarev, S. A., Andreyev, S. N., and Balicheva, T. G.

TICLE:

Vibrational spectra of perchloric acid in the liquid and

gaseous state

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 144, no. 3, 1962, 606-606

The state of the OH bond in perchloric-acid molecules in the gas phase, anhydrous 100% HClO₄, and solid HClO₄·H₂O was studied in the region of fundamental-tone valence frequency vibrations of OH. The respective vibrational spectra were investigated using the recording

respective vibrational spectra were investigated using the recording infrared spectrometer NKC-14 (IKS-14) and the nonrecording infrared spectrometer NKC-6 (IKS-6) (Fig. 1). Calibration was performed using the rotation vibration spectra of NH3, HCl, HBr, CO, CH4, and C6H6.

Results: (1) Gaseous HClO₄ is monomeric in the same way as a 0.001 M solution of HClO₄ in CCl₄. (2) The line-shift of anhydrous HClO₄ amounting to 170 cm⁻¹ is accounted for by the H bonds which have an energy amounting Card 1/2:

ANDREYEV, Georgiy Pavlovich; ANDREYEV, Sergey Nikolayevich;
BOCOLYUBOV, Valentin Yevgen'yevich; BURDAK, Nadezhda
Mironovna; ZHUKHOVITSKIY, Boris Yakovlevich; ZEVEKE,
Georgiy Vasil'yevich; KARAYEV, Ruben Iosifovich; LEVITAN
Semen Arkad'yevich; MUKHIN, Aleksandr Andreyevich;
NEGNEVITSKIY, Iosif Borisovich; PENEKALIN, Mikhail
Aleksandrovich; POLIVANOV, Konstantin Mikhaylovich, prof.,
doktor tekhn.nauk; FRIDKIN, L.M., tekhn. red.

[Problems of theoretical principles of electrical engineering; theory of networks]Zadachnik po teoreticheskim osnovam elektrotekhnik; teoriia tsepei. [By]G.P.Andreev i dr. Moskva, Gosenergoizdat, 1962. 159 p. (MIRA 15:12) (Electric engineering) (Electric networks)

SHCHUKAREV, S.A.; STROGANOV, Ye.V.; ANDREYEV, S.N.; FURVINSKIY, O.F.

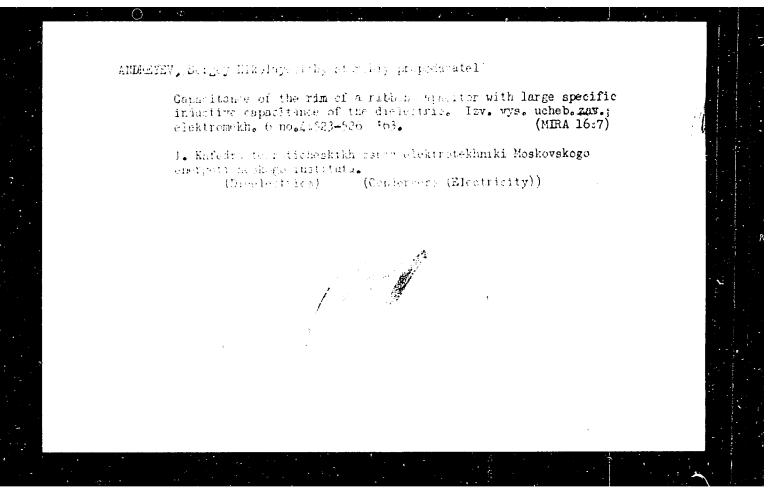
Crystel structure of the crystal hydrates of transition metal salts. Structure of CoI₂.6H₂O. Zhur.strukt.khim. 4 no.1163-66

Ja-F '63.

(MIRA 16:2)

1. Leningradskiy gosudarstvennyy universitet.

(Cobalt iodides) (Crystallography)



ANDREYEV, S.N.; BALICHEVA, T.G.

State of water molecules in crystal hydrates containing salts of certain elements. Dokl. AN SSSR 148 no.1:86-88 Ja 163.

(MIRA 16:2)

l. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanov. Predstavleno akademikom I.I. Chernyayevym.

(Water) (Ionic crystals) (Salts)

ANDREYEVA, M.V.: KHALDIN. V.G.; ANDREYEV, S.N.

Spectral absorption band structure of Co(H2O)6 and Co(OR1R2)6 in solutions in the region 25 000 - 13 000 cm-1. Dokl. AN SSSR 155 nc.1:115-117 Mr '04.

1. Lenimyradskiy tekstil'nyy institut im. S.M.Kirova.

Fredstavleno akademikom T.I.Chernyayevym.

Andereve, S.N.; Sapozhnikova, O.V.

Rear hydrate surroundings of Cu²⁺ions in diluted agreeds solutions of Cu (II) salts. Bokl. AN SSSR 156 no. 4:855-857 Je '64.

(MIRA 17:6)

1. Leningradskiy tokstil'nyy institut im. S.M.Kirova. Predstavleno akademikom 1.1.Chernyayevym.

Mear hydrate surroundings of Ca²⁺ions in diluted aqueeus solutions of Ca. (11) salts. bokl. AR SSER 156 no. 4:855-857 for tok. (MIRA 17:0)

1. leningradskiy tekstil'nyy institut im. S.M.Kirova. Predstavleno akademikom 1.1.Chernyayevym.

ANDREYEV, S.N.; SAFOZHNIKOVA, O.V.

Composition and structure of Cu (II) chlorides. Zhur.neorg.khim.
10 no.11:2538-2543 N '65. (MIRA 18:12)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti imeni S.M.Kirova. Submitted May 9, 1964.

ACC NR: AP7008113 SOURCE CCDE: UR/6020/67/172/004/0337/0840

AUTHOR: Andreyev, S. N.; Sapozhnikova, O. V.

OMG: Leningrad Institute of Toxtile and Light Industry im. S. M. Kirov (Leningradskiy institut tekstiliney i logkey promyshlennesti)

TITLE: Coordination equilibria in the system Cu2+.aq - HCl - H2O

SOURCE: AN SSSR. Doklady, v. 172, no. 4, 1967, 837-840

TOPIC TAGS: copper compound, absorption spectrum, coordination chemistry, chemical equilibrium

ABSTRACT: Electronic absorption spectra of the crystals Cs2CuCl4, [(CH3)4N]2.CuCl4 and [(C2H5)4N]2CuCl4, which differ in the size of the cations located outside the coordination sphere, were studied. The spectra showed that a decrease in the radius of the cation outside the sphere causes a shift of the absorption bands of [CuCl4]2-ions into the high-frequency range, the form of the spectral absorption curves remaining the same. This leads to the assumption that the electronic absorption spectrum of the system Cu²⁺·aq - HCl - H2O.at CHCl = 5-12 M is due to the formation of tetrahedral complexes [CuCl4]2- in the solution. A change in HCl concentration from 10-4 to 20 N in solutions of salts of divalent copper involves the following processes:

 $\begin{array}{l} [Cu\,(H_2O)_a]^{2+} \rightleftarrows [Cu\,(H_2O)_a\,Cl]^+ \rightleftarrows [Cu\,(H_2O)_aCl_2] \rightleftarrows [Cu\,(H_2O)_5Cl_3]^- \rightleftarrows \\ \rightleftarrows [Cu\,(H_2O)_cCl_4]^{2-} + trans \rightleftarrows [CuCl_4]^{2-} + telephod \rightleftarrows [...CuCl_4...]. \end{array}$

Card 1/2

UDC: 535.34:541.49:546.562

ACC NR: AP7008113

The reactions of stepwise substitution of CI- ions for water in the inner sphere of hydrated Cu^{2+} cations take place in solutions where HCl is dissociated almost completely. The direction of these processes is determined by the concentration of CI- ions. The coordination equilibria $[\text{Cu}(\text{H}_2\text{O})_2\text{CI}_4]^2-\pm[\text{Cu}\text{CI}_4]^2-\text{tetrahedral}$ and $[\text{Cu}\text{CI}_4]^2-\text{tetrahedral}$ and $[\text{Cu}\text{CI}_2]_n$ can be observed only at a high concentration of undissociated HCl molecules. It is postulated that in the former process the HCl molecules act as dehydrating agents, and in the latter, they solvate the chloride anions. The paper was presented by Academician Chernyayev, I. I., 13 April 1966.

SUB CODE: 07/ SUBM DATE: 12Apr66/ ORIG REF: 001/ OTH REF: 011

2/2

88134

S/019/60/000/023/071/116 A154/A027

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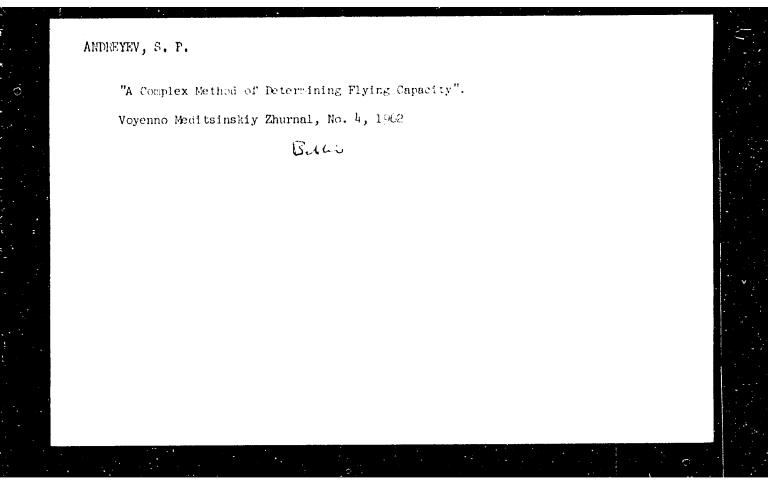
AUTHORS: Solov'yev, V.I., Andreyev, S.P.

TITLE: A Unit for Statically Testing Aircraft Flaps

PERIODICAL: Byulleten' izobreteniy, 1960, No. 23, p. 48

TEXT: Class 42k, 27. No. 134063 (658449/40 of March 2, 1960). 1. This unit for statically testing aircraft flaps is distinguished by the fact that, in order to test the flaps for static endurance and at the same time automatically load them in the wing system according to a given program, the unit is made in the form of a colonnade to which is attached one end of the loaded wing with the tested flap, which is controlled by a transmission with an automatic programming device, and a hydraulic actuator carrying out the program loading by means of potentiometric follow-up systems and having an electronic amplifying device and hydraulic force exciters (silovyye vozbuditeli) which act upon the skin of the wing and the flap via lever systems and canvas straps. 2. A unit as given in 1., distinguished by the fact that,

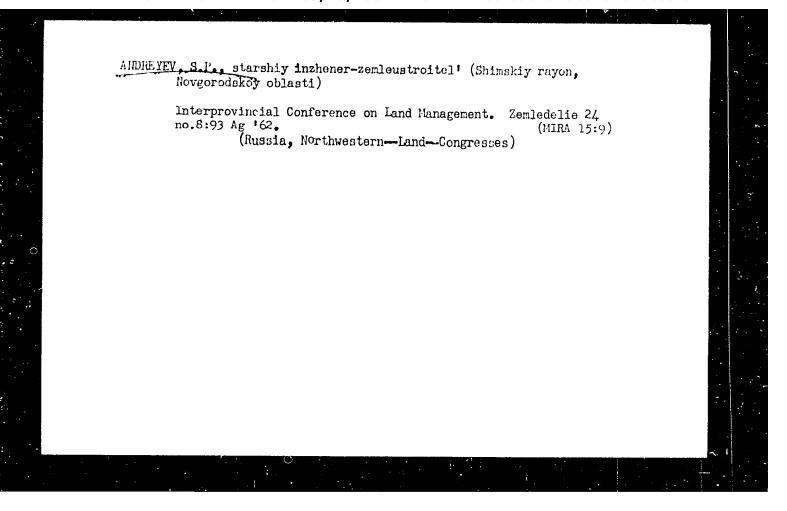
Card 1/2



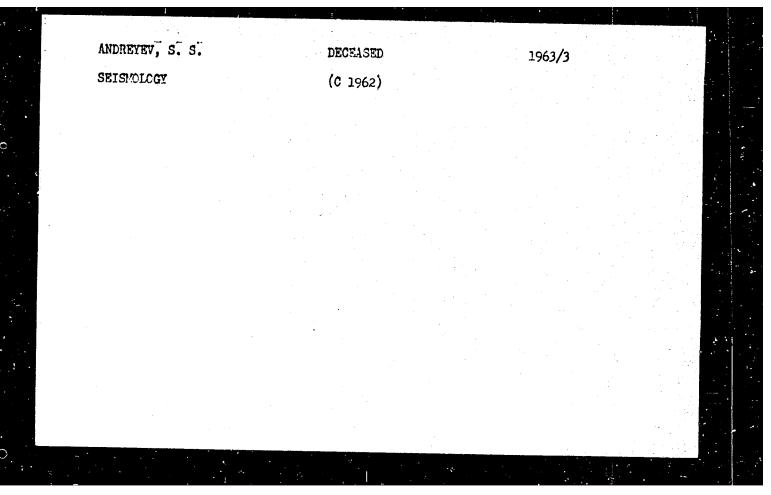
ANDREYEV, S., gvardii general-mayor aviatsii zapasa

Pavel Rychagov. Av.i kosm. 45 no.3:76-77 Mr '63. (MIRA 16:3) (Rychagov, Payel Vasil'evich, 1911-1941)

B. 66...



"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101520009-3



DERYAGIN, B.V.; ZAKHAVAYEVA, N.N.; ANDREYEV, S.V.

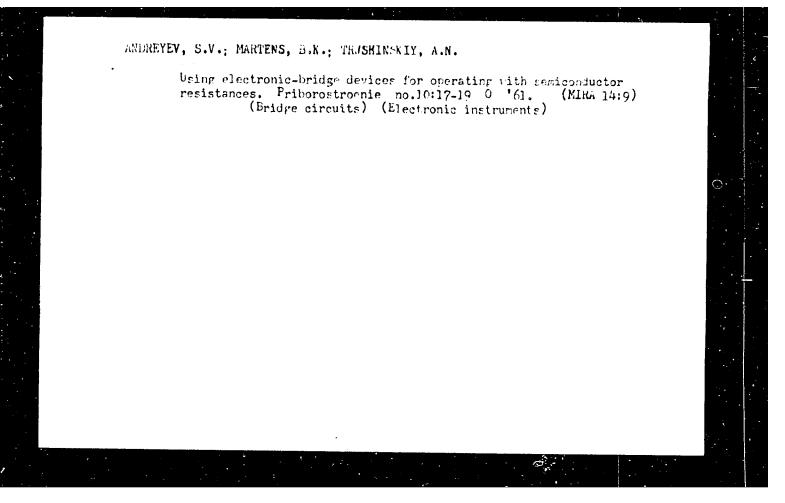
Flow of a fluid with high molecular weight and of its solutions in a thin layor. Inzh.-fiz.zhur. no.5:92-95 My '62. (MIRA 15:7)

1. Institut fizicheskoy khimii AN SSSR, Moskva. (Laminar flow)

ANDREYEV, Sergey Vasil'yevich; MARTENS, Boris Konstantinovich; TRUSHINSKIY,
Aleksandr Mikolayevich; IVANOV,B.N., ineks, red.; FREGER, D.P., red.
izd-va; BELOGUROVA, I.A., tekhn. red.

[Multipositional electromechanical programmed controller; temperature,
humidity, and lighting] Mnogopoziteionnyi elektromekhanicheskii programmyi reguliator; temperatury, vlazhnosti i osveshhennosti. Leningrad, 1961. 18 p. (MIRA 14:8)

(Electric controllers)



ANDREYEY, S.V.

PHASE I BOOK EXPLOITATION

SOV/5590

Konferentsiya po poverkhnostnym silam. Mosecu, 1960.

Issledovaniya v oblasti poverkhnostnykh sil; sbornik dokladov na konferentsii po poverkhnostnym silam, aprel' 1960 g. (Studies in the Field of Surface Forces; Collection of Reports of the Conference on Surface Forces, Held in April 1960) Moscow, Izdvo AN SSSR, 1961. 231 p. Errata printed on the inside of back cover. 2500 copies printed.

Sponsoring Agency: Institut fizicheskoy khimii Akademii nauk SSSR.

Resp. Ed.: B. V. Deryagin, Corresponding Member, Academy of Sciences USSR; Editorial Board: N. N. Zakhavayeva, N. A. Krotova, M. M. Kusakov, S. V. Nerpin, P. S. Prokhorov, M. V. Talayev and G. I. Fuka; Ed. of Publishing House: A. L. Pankvitser; Tech. Ed.: Yu. V. Rylina.

PURPOSE: This book is intended for physical chemists.

Card 1/8

Studies in the Field of Surface Forces (Cont.)

COVEMAGE: This is a collection of 25 articles in physical chemistry on problems of surface phenomena investigated at or in association with the Laboratory of Surface Phenomena of the Institute of Physical Chemistry of the Academy of Sciences USSR. The first criticle provides a detailed chromological account of the Laboratory's work from the day of its establishment in 1935 to the present time. The remaining articles discuss general surface force problems, polymer adhesion, surface forces in thin liquid layors, surface phenomena in dispersed systems, and surface forces in acrosols. Names of scientists who have been or are now associated with the Laboratory of Surface Phenomena are listed with references to their past and present associations. Each article

TABLE OF CONTEITS:

Zakhayaya, N. N. Tucnty-Five Years of the Laboratory of Surface Phenomena of the IRMAM SSSR (Institute of Physical Chemistry of the Academy of Sciences USSR)

Card 2/8

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| | • | Studies in the Field of Surface Forces (Cont.) SOV/5590 | | | |
| • | • | III. SURFACE FORCES IN THIN LAYERS OF LIQUIDS | | | |
| | | Akhmatov, A. S. Fundamental Law of Boundary Friction and Its Physical Basis | 93 | | |
| | : | Fuks, G. I. Properties of Organic Acid Solutions in Hydro- carbon Liquids at the Surface of Solids | 99 | | |
| | | Tolstoy, D. M. Some Considerations on the Regularities of Friction of the First Order | 113 | | |
| | 1 | Tolstoy, D. M., R. L. Kaplan, Lin Fu-sheng, Plan Pin-yao. New Experimental Data on External Friction | 126 | | |
| | | Deryagin, B. V., N. N. Zakhavayeva, S. V. Andreyev, A. A. Milovidov, A. M. Khomutov. Study of the Flow of Thin Layers of Polymer Solutions By the Cinematographic Method | 139 | | |
| | | Voropayeva, T. N., B. V. Dervagin, B. N. Kabanov. Effect of the Concentration of an Electrolite on the Magnitude of the | | | |
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8/081/61/000/021/017/094 B102/B138

AUTHORS:

Deryagin, B. V., Zakhavayeva, N. N., Andreyev, S. V.,

Milovidov, A. A., Khomutov, A. M.

TITLE:

Filming the flow of thin layers of polymer solutions

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 21, 1961, 65, abstract 21B525 (Sb. "Issled. v. obl. poverkhnostnykh sil", M., AN SSSR, 1961, 139-142)

TEXT: The authors improve on an earlier method (RZhKhim, 1954, no. 12, 30393; 1957, no. 23, 74075) for investigating the rheological properties of thin layers of solutions by blowing, introducing the use of moving pictures. The apparatus is described. It gives a complete picture of the process of blowing the liquid layer. Photographs of the interference bands are shown for turbine oil, vinyl polymer and its solutions in turbine oil. [Abstracter's note: Complete translation.]

Card 1/1

ANDREYEV, S.V.; MARTENS, B.K.; TRUSHINSKIY, A.N.

Semiconductor device for automatic remote measurement and regulation of temperature. Izm.tekh. no.11:23-27 N '61.

(MIRA 14:11)

(Thermostat)

S/170/62/005/005/010/015 B104/B102

AUTHORS: Deryagin, B. V., Eikhavayeva, N. N., Andreyev, S. V.

TITLE: The laminar flow of high-molecular liquids and their solu-

tions

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 5, no. 5, 1962, 92 - 95

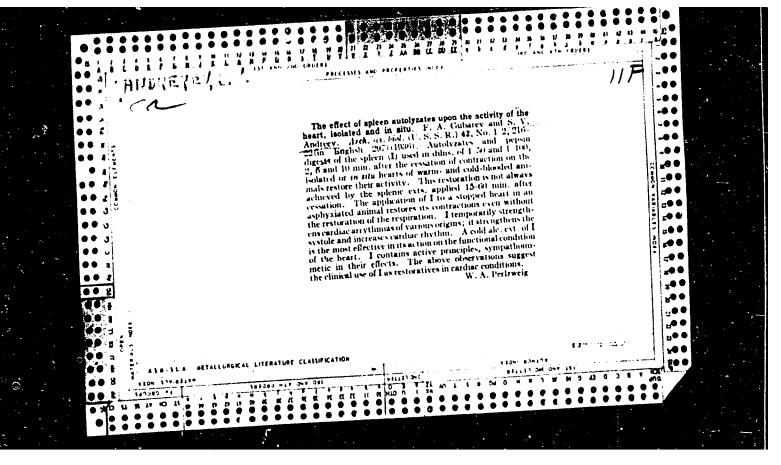
TEXT: This is a survey of the authors papers on a method for investigating thin films of liquide flowing on a solid and for studying their properties, devised in the laboratoriya poverkhnostnykh yavleniy IFKh AN SSSR (Laboratory of Surface Effects IFKh AS USSR), (cf. eg. Deryagin et al. DAN SSSR, 4, 101, 1955). There are 2 figures.

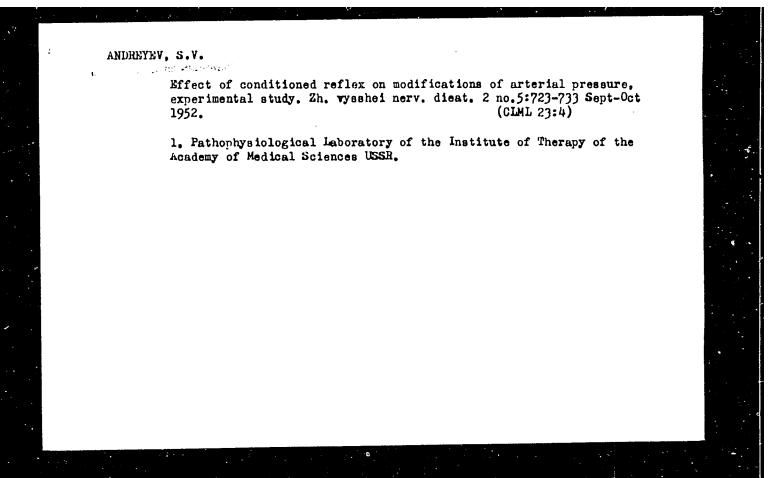
ASSOCIATION: Institut fizieheskoy khimii AN SSSR, Moscow (Institute

of Physical Chemistry AS USSR, Moscow)

SUBMITTED: August 7, 1961

Card 1/1

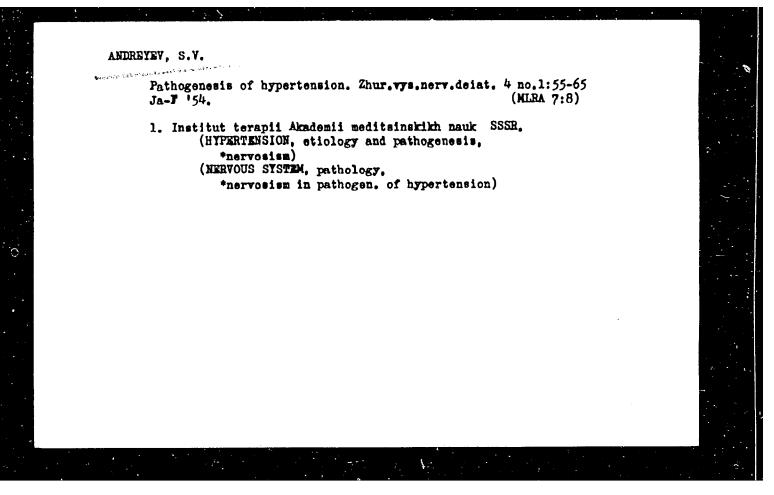




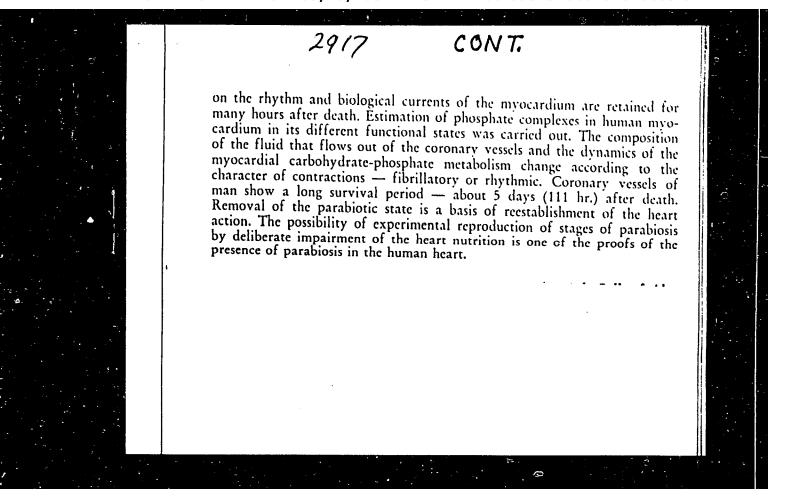
ANDREYEY, S.Y. VADKOVSKAYA, Yu. D. GLEBOVA, M.S.

Effect of renin preparations on blood pressure in experimental conditions. Tr. Alcad. med. nauk SSSR Vol.20: 56-75 19;2. (CIML 25:5)

1. Of the Pathophysiology Laboratory (Head - S.V. Andreyay. Doctor Medical Sciences), Institute of Therapy (Director - A.L. Myasnikor, Active Member AMS USSR), Academy of Medical Sciences USSR.



EMCERPTA MEDICA Sec. 2 Vol. 10/7 Phy. Biochem. July 57 2917. ANDREYEV 6. V. Inst. of Pharmacol. and Chemother., Acad. of Med. Sci., of the USSR, Moscow Reactivation of the human heart after death (Russian text) Moscow 1955 (224 pages) Tables 26 Illus, 37 Numerous data on reestablishment of contractile and bioelectrical action of the human heart after death from a variety of diseases are given. Complete or partial recovery of function of the human heart was obtained in 70% of experiments. Action of the whole heart was reestablished in 28 experiments and action of ventricles in 91 (out of a total of 240). In one experiment the action of atria and ventricles of the heart of a premature baby was started again 99 hr. after death. Experiments were carried out not only on the isolated heart but also on cadavers. The sequence in which contractility of the heart chambers is reestablished and its partial or complete degree depends mainly on the character and peculiarities of the pathological process. For instance, the contractility reappears first in the left ventricle in man in whom the lungs and pulmonary vessels were affected. Reestablishment of human heart contractility depends also on age characteristics and on the time that has elapsed after death. Reestablishment of bioelectrical activity and ECG waves in human heart shows 3 periods. Low-voltage fluctuations appear in the first period, high-voltage ones in the 2nd, and in the 3rd there is differentiation of waves and formation of a characteristic human ECG. Each heart chamber has its own ECG. Activity of extracardiac nerves and their influence



HNUKEYE, J. J. USSR/Medicine - Physiology

FD-2269

Card 1/1

Pub 17-20/20

Author

Andreyev, S. V.; Trofimova, Z. G.; and Barsukova, A. I.; with the

assistance of Arkhipova, N. A.

Title

On an investigation of the coronary vessels of the heart of a dog

by means of motion picture photography

eriodical:

Byul. eksp. biol. i med. 3, 76-79, Mar 1955

Abstract

Gives details of operative procedure for opening the thorax of a dog, inserting a pericardial cannula, and photographing the heart in action by means of motion picture photography. Describes regularly occurring changes in the coronary vessels of the heart observed on enlargement and examination of the picture frames. Photograph; motion-picture photographs. Eleven references; 10 USSR, 7

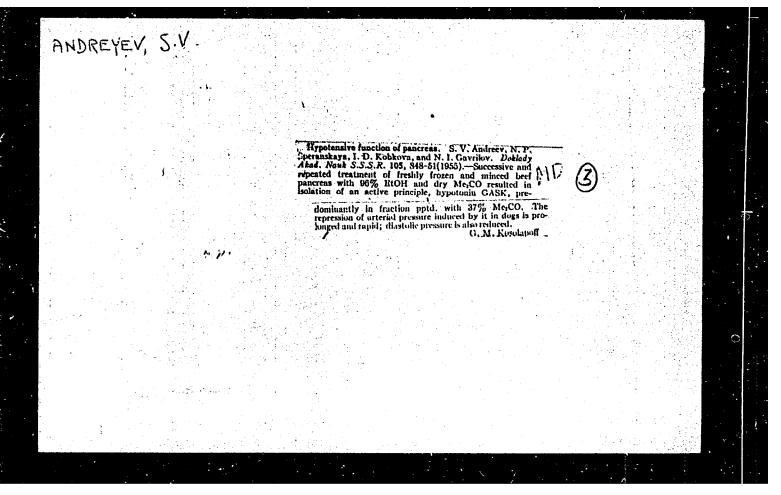
after 1940.

Institution:

Laboratory of Pathophysiology (Head-Prof. S. V. Andreyev) of the Institute of Pharmacology, Experimental Chemotherapy and Chemoprophylaxis (Director-Prof. V. V. Zakusov, Member of the Academy of Medical Sciences USSR) of the Academy of Medical Sciences USSR and the Department of Scientific Cinephotodocumentation (Head - N. A. Kim) of the

Academy of Medical Sciences USSR

Submitted

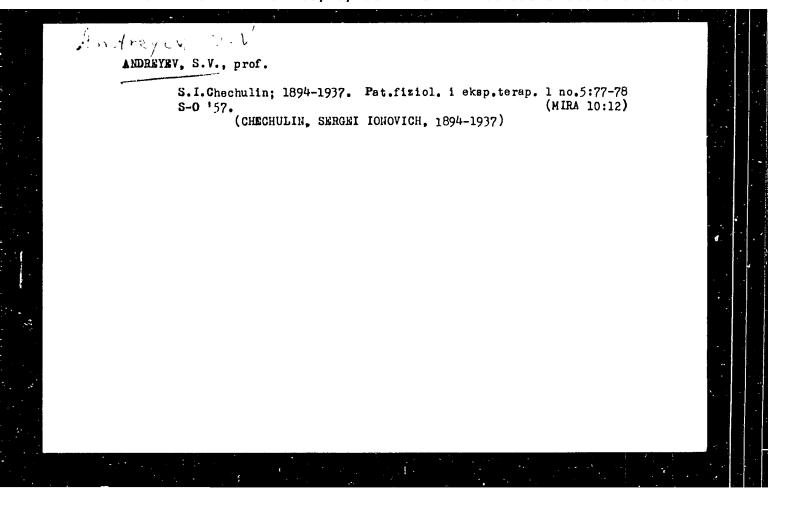


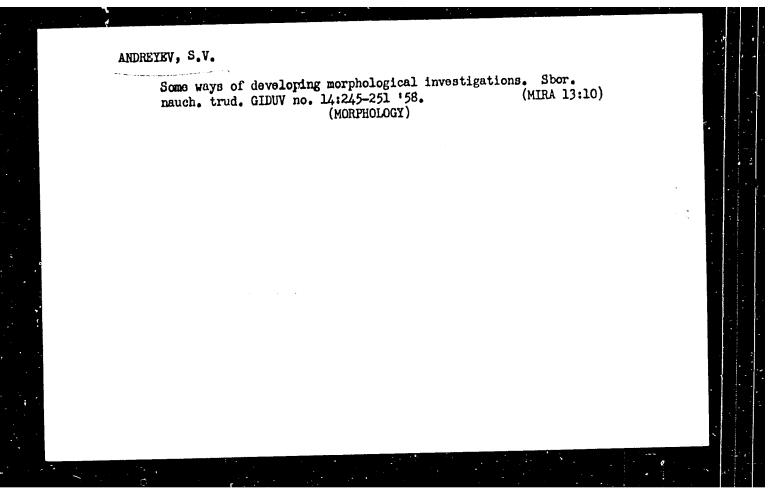
ANDREYEV, Sergey Vasil'yevich, dektor meditsinskikh nauk, professor; RENTUMOV,

O.M., redaktor; ISLENT'IEVA, P.G., tekhnicheskiy redaktor.

[The activity of the heart and methods for investigating it] Deiatel'nost' serdtsa i metody ee issledevanita. Hoskva, Izd-vo "ZNANIE",
1956. 31 p. (Vsesciusnee obshchestvo po rasprestraneniiu peliticheskikh
i nauchnykh snanii. Ser. 3, no.16).

(HEART)





507, 20-123-2-11, 1.2 AUTHORS: Priorov, N. N., Pember of the Academy of Medical Sciences, USSR, Andreyev, S. V., Cherkacova, T. I.

The Role of Cobalamine in the Restoration of the Function of TITLE:

the Arm of After Damage to Peripheral Nerves

(Znacheniye kobulamina dlya vosstanovleniya funksiy ruki cheloveka posle pereryva perifericheskikh nervov)

Dokludy Akademii nauk SSSR, 1958, Vol 122, Nr 2, pr 312-315 PERIODICAL: (USSR)

ABSTRACT: The acceleration of the regeneration of nerve tissue is one

of the most urgent problems in the practice of restoring normal functions. In man this period stretches for $3-\overline{7}$ years, if one extremity is injured. The methods of stimulation applied at present of the regenerative process in nerves do not achieve a complete restoration c, the sensorial and motoric functions (Refs 2, 4, 5, 8, 10). In man and in animels the severing of one nerve or several nerves leads to complicated and involved modifications in the whole organism.

Degenerative modifications develop in various parts of the peripheral, vegetative and central nerve system (Refs 6, 7). Card 1/4

507/20-122-2-41/42

The Role of Cobalamine in the Restoration of the Function of the Arm of Patients After Damage to Peripheral Nerves

There is reason to believe that the regeneration of one single injured nerve is sufficient for the removal of all pathological consequences of the trauma. This is presumably true in particular in cases, where a considerable time has elapsed since the traumatic effect and the pathological nelifications in the organism are already well established. Hence a cimultaneous and multi-directional stimulation of the nerve-, the metabolism-, the blood vessel-, the haemodynamical and of other functions is required for a complete re-establishment of the activity of a traumated extremity. It proceeds from experimental evidence collected in the Institut farmakologii i khimioterapii Akademii meditsinskikh nauk SSSR (Institute of Pharmacology and Chemical Therapy, Academy of Medical Sciences, USSR) (Ref 1) that the widely effective vitamin B₁₂ (cobalamine) does not only accelerate the regeneration of the injured peripheral nerves in rats, but also stimulates the re-production of the motoric platelets in the muscles surrounding the nerve. This is also true for blood vessels and for other organs and functions. (Refs 9, 11-13). It was the purpose of this paper to seek an understanding of the role played by cobalamine in the regeneration of one

Card 2/4

SOV/20-122-2-41/42

The Role of Cobalamine in the Restoration of the Function of the Arm of Patients After Damage to Peripheral Nerves

or of two severed nerves in the human hand and in the reestablishment of the function of the hand. 50 persons were incorporated in this test: I) (37 persons) who suffered from a complete anatomical severance of a nerve, and II) (13 persons) with a simultaneous severance of the nervus medianus and ulnaris. Cobalamine was injected under the skin of the shoulder. From 25 to 30 injections were administered and this treatment was repeated after a lapse of 10 - 15 days for 2 - 4 times. The experience collected shows that an increase of the cobalamine dosis from 15 - 30 to 200 μg per injection seems advisable. A comparison was carried out between the clinical observations and the dynamics of the physiological modifications of 29 persons of group I. It appeared that the introduction of cobalamine into the method of treatment considerably accelerates the initial features of regeneration and of a restoration of normal functions. A complete restoration of sensitivity together with a partial restoration of movability was found in 2 persons, who received injections of thiamin. In cases where patients

Card 3/4

507/20-122-2-41/42 The Role of Cobalamine in the Restoration of the Function of the Arm of

Patiente After Damage to Peripheral Nerves

who were given cobalamine exhibited an incomplete re-innervation of muscles an acceleration of compensatory adaptions and a decrease of physiological displacements in the neuro-muscular apparatus was observed. There are 2 figures and 13 references, 10 of which are Soviet.

Tsentral'nyy nauchno-issledovatel'skiy institut travmatologii ASSOCIATION:

i ortopedii

(Central Scientific Research Institute for Traumatology and

Orthopedics)

May 4, 1958 SUBMITTED:

Card 4/4

ANDREYEV, S.V.; TROFIHOVA, Z.G. (Moskva)

New method for inducing experimental myocarditis in rats. Pat.fiziol.
i eksp.terap. 3 no.6:35-39 N-D '59. (MIRA 13:3)

1. Iz laboratorii patofiziologii i farmakologii serdechno-sosudistoy
sietemy (saveduyushchiy - prof. S.V. Andreyev) Instituta farmakologii
i khimioterapii AMN SSSR (direktor - deystvitel'nyy chlen AMN SSSR
prof. V.V. Zakusov).

(MYOCARDITIS exper.)

(TOXINS AND ANTITOXINS pharmacol.)

ANDREYSY, S.V.; YEVSTIGNEYEVA, R.P.; MIRZABEKOV, A.M.; SPERANSKAYA,
N.P.; PREORRAZHENSKIY, N.A.

Similarity between the chemical structure and biological
activity of ribonuclease and increpan. Zhur.ob.khim. 30
no.7:2433 Jl '60. (MIRA 13:7)

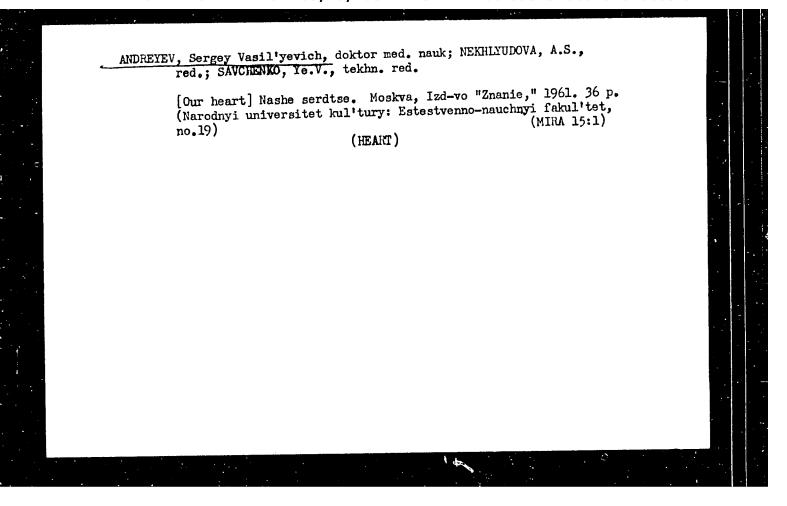
1. Moskovskiy institut tonkoy khimicheskoy tekhnologii i
institut farmskologii i khimioterapii Akademii meditsinskikh
nauk SSSR. (Ribonuclease)

ANDREYEV, S. V., and YEVSTIGNEYEVA, R. P. (U.SR)

"Hypotensive Activity of Increpane and Ribonuclease."

Report resented at the 5th International Biochemistry Congress,

Moscow, 10-16 Aug 1961

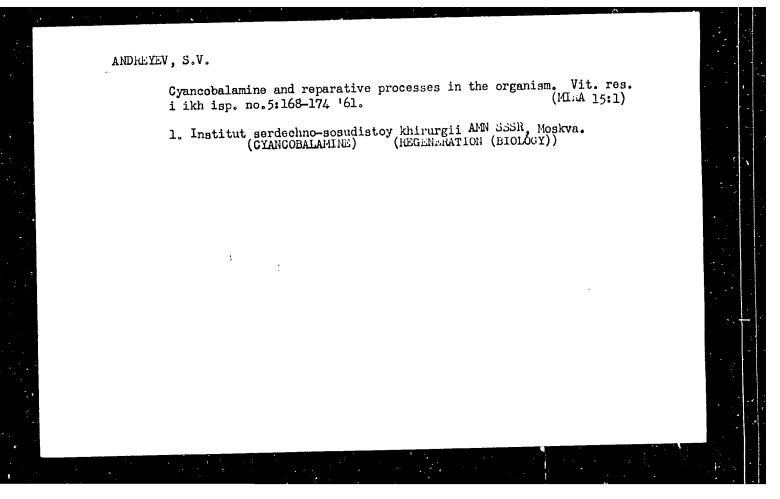


ANDREYEV, Sergey Vasil'yevich, doktor med. nauk, prof.; YUSHINA, Yu.G. red.; STAROSTENKOVA, M.M., red.izd-va; RAKITIN, I.T., tekhn. red.

[New data on the heart and blood vessels] Novoe o serdtse i sosudakh.
Moskva, Izd-vo "Znanie," 1961. 45 p. (Vsesciuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchrykh znanii. Ser.8, Biologiia i meditsina, no.19)

(MIRA 14:11)

(CARDIOVASCULAR SYSTEM-DISEASES)



PRIOROV, N.N. [deceased]; ANDREYEV, S.V.; CHERKASOVA, T.I.

Use of cyanocobalamine in restoring functions of the peripheral nerve after a suture. Vit. res. i ikh isp. no.5:175-188 '61.

(NI.A 15:1)

1. TSentral'nyy institut travmatologii i ortopedii Ministerstva zdravookhranoniya S.SR, Moskva.
(CTANOCOBALAMIRE) (HERVES, PELIPHEMAL)

(REGENERATION (BIOLOGY))

ANDREYEV, S.V.; TROFIMOVA, Z.G.

Experimental therapy of myocarditis. Uch.zap.Inst.farm.i khimioter.

AMN SSSR no.2:223-251 '60. (MIRA 15:10)

1. Laboratoriya patofiziologii i farmakologii serdechnososudistoy sistemy (zav. professor S.V.Andreyev). (HEART-DISEASES)

ANDREYEV, S.V.

Energy of radiations absorbed by the human body during radon baths. Med.rad. no.6:29-37 '61. (MIRA 15:1)

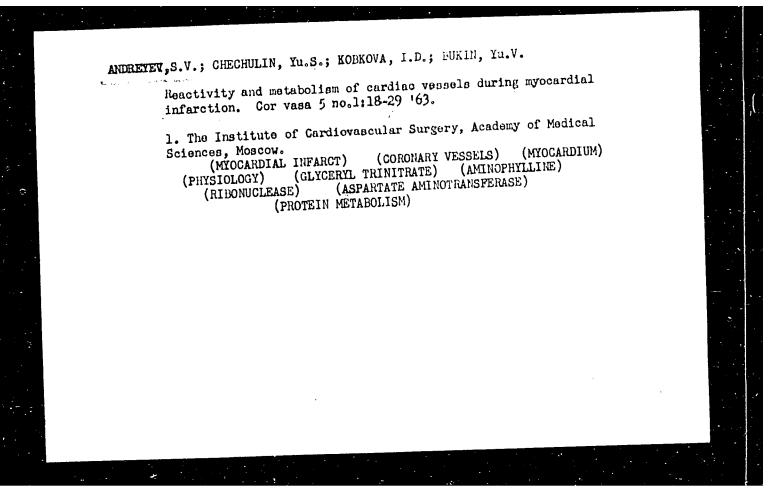
l. Iz radiologicheskoy laboratorii (zav. - prof. Ye.S. Shchepot'yeva) TSentral'nogo instituta kurortologii i fizioterapii Ministerstva zdravookhraneniya SSSR. (RADON -THERAPEUTIC USE) (RADIATION-DOSAGE)

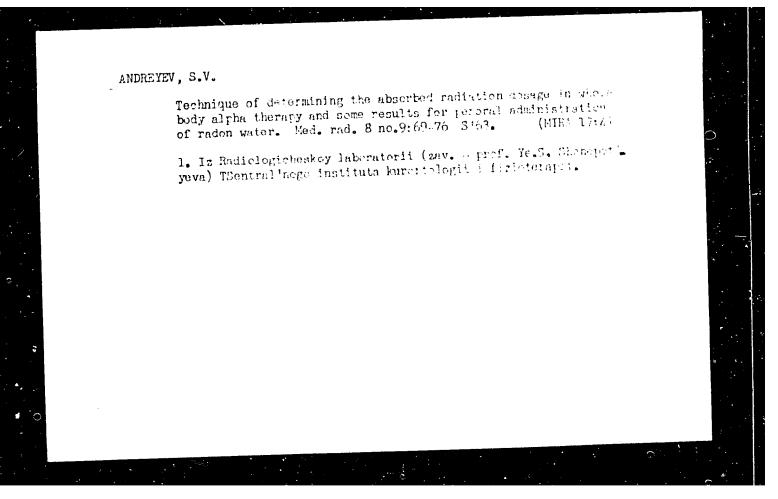
ANDREYEV, S. V.

Small-sized apparatus for radon inhalations. Med. rad. no.2: 83-85 '62. (MIRA 15:7)

1. Iz radiologicheskoy laboratorii (zav. - prof. Ye. S. Shchepot'-yeva) TSentral'nogo nauchno-issledovatel'skogo instituta kurorto-logii i fizioterapii.

(RADON_THERAPEUTIC USE)
(INHALATION THERAPY_EQUIPMENT A:D SUPPLIES)



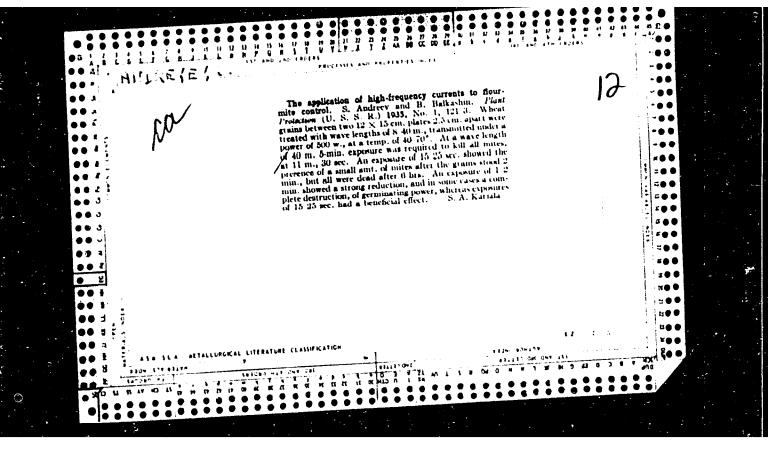


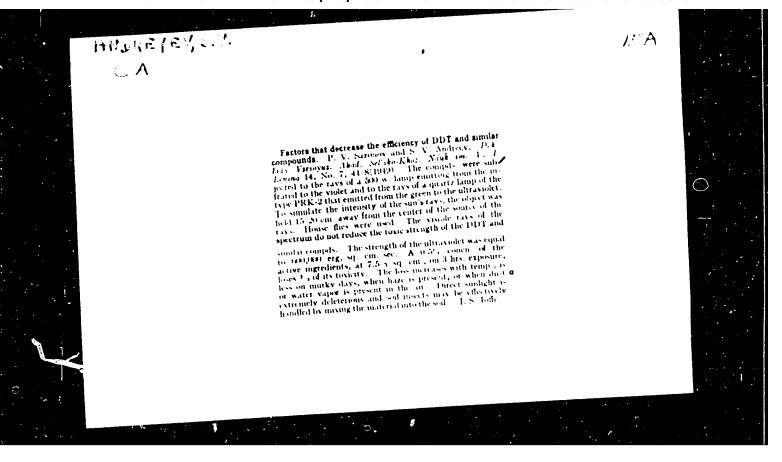
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| AUTHOR: Andrey | NATAY. | | | 78 | |
| TITLE The res | toration of contractin man and animals | File activity and the | prospects A.A. | | |
| CITED SOURCE | Eksperim, khi turgiy | a i mesteriol., no. 4 | , 1964, 31-36 | | |
| TOPIC TAGS: Co | erdiac transplant, c tissue incompatibili | ardiao contractility, ty | cardiac innerve | The second of the second | |
| erivity of th | S West and the root | the possibility of res ativity of the cardisc | who ha | d died and selection | |
| after death in | leases, in the au | thor's opinion, the ma | in obstacle to | a solucion Income | |
| pacibility and | the difficulty of | | the transplant | | |
| SUB CODE: 18 Cord 1/1 | | sectif co | | | |
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ANDREYEV, S.V.: SAMOYHOVA, 7.I.; MARTENS, B.E.

Possibilities of using % irradiation for the sterilization of corn car worm for the reduction of its population. Radiobiologiia 4 no.4:624-626 '64. (MEA 17:11)

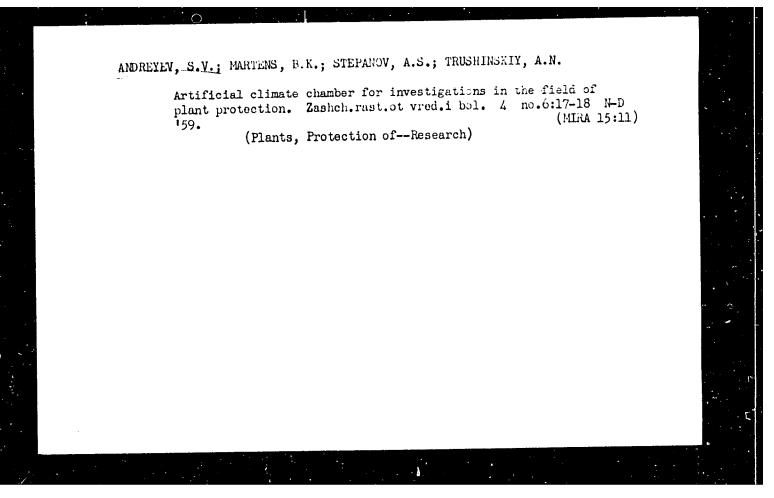
1. Vsesoyuznyy institut zashchity rasteniy, leningrad.





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MARTENS, B.K., kand.tekhn.neuk; ANDREYEV, S.V., kend.biolog.neuk, neuchnyy red.; VOROB'YEV, G.S., red.izd-va; GURDZHIYEVA, A.M., tekhn.red.

[Using ionizing radiation in agriculture] Ispol'zovanie ioniziruiushchikh izluchenii v sel'skom khoziaistve. Leningrad, 0-vo po
rasprostraneniiu polit. i nauchn.znanii RSFSR, Leningr.otd-nie,
1960. 26 p. (MIRA 13:9)

(Radiation--Physiological effect)
(Plants, Effect of radioactivity)

ANDREYEV, S. V.,

"The use of Radioisotopes and Radiation in the Field of Plant Protection"

Paper presented at the Symposium on Radioisotopes and Radiation in Entomology, Bombay, India, 5-9 Dec 1960: Under the sponsorship of the Intl. Atomic Energy Commission.

Using nuclear magnetic resonance for determining soil moisture.
Foohvowdenie no.10:112-115 '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel skiy institut zashchity rasteniy.

(Nuclear magnetic resonance) (Soil moisture)